



**Environmental and Safety Designs, Inc.**

901/372-7962

January 14, 1991

Mr. Carl Krull  
Carrier Corporation  
97 South Byhalia Road  
Collierville, TN 38017

RE: Collierville City Water Sampling on November 11, 1990

Dear Carl:

Enclosed please find the results of November 11, 1990 samples of the City of Collierville water system. These samples were collected and shipped under chain-of-custody to Pace Laboratories, Inc. for analysis.

Table 1i contains trichloroethylene results for the sampling events of November 11, 1990. Table 2 contains the trichloroethylene (TCE) results for all TCE results in the city wells since August of 1986, that are known to us. All samples collected by EnSafe were sent to either CompuChem or Pace Laboratories for analysis.

The complete laboratory reports for this sampling event, including duplicates and field blanks analyzed as part of the quality assurance program, are enclosed for your files. If you have any questions or comments, please feel free to contact me.

Sincerely,

Phillip G. Coop  
Vice President

enclosures

cc: Jess Walrath  
Nelson Wong  
Beth Brown, USEPA  
Helyn Kieth, MSCHD  
TDHE, Jackson Office  
1048-003 file

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TABLE 1i

ANALYTICAL RESULTS FOR TRICHLOROETHYLENE  
COLLIERVILLE CITY WATER SAMPLING  
November 19, 1990

SAMPLE NUMBER SAMPLE DESCRIPTION	CLP VOLATILES Pace CONC. ( $\mu\text{g}/\text{l}$ )
111990CW-1 Well Field #2 East Well	34.0
111990CW-2 Well Field #2 West Well	45.0
111990CW-3 Well Field #2 After Aeration	* BDL
111990CW-4 Well Field #2 After Aeration (Duplicate)	* BDL
111990CW-5 Well Field #2 Field Blank	* BDL
111990CW-6 Well Field #2 After Aeration After Chlorination	* BDL
111990AS Well Field #2 After Stripper	* BDL

\* Below Detection Limit of 5.00

TABLE 2  
ANALYTICAL RESULTS SUMMARY FOR  
TRICHLOROETHYLENE IN WELLFIELD #2  
RESULTS ARE REPORTED IN \(\*mg/L)

Sampling Date	East Well	West Well	AA BC	AA AC	AS	QA/QC QUALIFIER
08/27/86	2.0	4.0	---	---		
09/09/86	1.8	<1.0	---	<1.0		
02/24/87	3.3	3.4	0.87	0.68		
04/09/87	3.6	3.5	0.53	0.56		
06/18/87	2.3	2.0	---	0.37		
07/02/87	4.5	3.7	1.1	---		B, R
07/16/87	3.6	4.1	1.4	---		B
07/30/87	3.1	3.9	0.92	---		
08/20/87	4.4	8.1	2.0	---		R
09/04/87	2.1	3.3	0.72	---		
09/17/87	1.7	4.0	0.73	---		
10/01/87	2.2	4.5	0.87	---		
10/15/87	1.8	2.6	<0.20	---		
10/29/87	1.6	3.0	0.35	---		
11/12/87	3.0	0.85	0.51	---		
12/03/87	2.0	5.0	0.85	---		
12/17/87	2.0	5.5	0.63	---		B, R
01/04/88	2.9	7.2	1.6	---		B
01/21/88	2.5	6.7	1.3	---		B
02/04/88	12.0	3.4	2.35	---		B
02/18/88	5.2	10.2	1.75	---		C
03/08/88	3.5	8.3	2.1	---		R, C
03/08/88	2.1	8.5	1.1	---		Recra Env.
03/08/88	5.05	4.48	0.99	---		ETC-Memphis
03/23/88	4.2	9.5	2.0	---		C
03/23/88	1.7	7.7	0.77	---		Recra Env.
03/23/88	2.64	8.25	1.65	---		ETC-Memphis
04/28/88	3.0	9.0	2.0	---		
05/17/88	4.0	10.0	3.0	---		
05/31/88	4.0	9.1	2.35	---		
06/13/88	4.4	9.1	2.7	---		
06/27/88	6.0	11.0	4.0	---		

TABLE 2, continued  
ANALYTICAL RESULTS SUMMARY FOR  
TRICHLOROETHYLENE IN WELLFIELD #2  
RESULTS ARE REPORTED IN \(\*mg/L)

Sampling Date	East Well	West Well	AA BC	AA AC	AS	QA/QC QUALIFIER
07/19/88	6.0	9.0	3.5	3.0		
08/17/88	7.5	6.9	2.05	1.8		
09/23/88	8.6	8.5	2.4	4.1		
10/07/88	11.0	13.0	4.0	3.4		
11/03/88	10.0	11.0	3.45	---		
11/17/88	19.0	13.0	6.4	---		R
12/02/88	15.0	15.0	4.3	---		
03/08/89	5.2	9.2	1.9	---		
04/10/89	6.5	4.7	0.86	1.1		
05/15/89	11.0	7.1	1.85	1.6		
06/12/89	17.0	9.0	2.45	2.4		
07/12/89	15.0	9.8	2.4	1.5		
08/10/89	25.0	14.0	3.15	3.1		R, C
09/12/89	16.0	14.0	3.6	2.5		R
10/11/89	12.0	23.0	4.8	4.5		R
11/14/89	15.0	----	2.4	2.0		
12/05/89	25.0	----	4.5	3.3		
01/16/90	31.0	----	5.4	4.5		
02/06/90	32.0	----	5.0	3.6		
04/30/90	----	19.0	<0.30	<0.30	<0.30	
05/11/90	----	17.0	0.66	<0.30	<0.30	R
05/18/90	----	14.0	<0.30	<0.30	<0.30	
06/06/90	5.1	14.0	<0.30	<0.30	<0.30	
06/15/90	8.4	20.0		<0.30	<0.30	
06/28/90	7.9	23.0	<0.30	<0.30	<0.30	
07/06/90	8.6	25.0	<0.30	<0.30	<0.30	
07/13/90	9.4	21.0	<0.30	<0.30	<0.30	
08/21/90	9.0	27.0	<5.00	<5.00	<5.00	D
09/18/90	52.0	75.0	<1.00	<1.00	<1.00	
11/19/90	34.0	45.0	<5.00	<5.00	<5.00	D

Notes:

- (1) ---- indicates that no samples were collected.
  - (2) AAAC indicates after aeration after chlorination in the treatment plant; AS indicates after stripper.
  - (3) Duplicate analyses are averaged for reporting purposes unless the Relative Percent Difference exceeds 25%. In that event, an 'R' QA/QC qualifier is used and the higher value is reported.
  - (4) QA/QC Data Qualifier Remarks:
    - B: A 'B' qualifier is used if trichloroethylene is reported in the field blank for this sampling event.
    - R: An 'R' qualifier is used if the relative percent differences (RPD) of duplicates for this sampling event exceed 25%.
    - C: A 'C' indicates that the reported value is a corrected value based on subsequent QA/QC review of data.
    - D: A 'D' indicates that detection limits are elevated due to the use of CLP Methodology, not Method 601.
- Lab: Unless otherwise indicated all analyses were performed by CompuChem Laboratories.